

Laboratory Analytical Report

12 August 2013

Mr. Robert Keyes

Associated Environmental Industries Corp.

P.O. Box 5300

Norman, OK 73070

WO: E3H0130

RE: Webb City, OK

Enclosed are the results of analyses for samples received by the laboratory on 08/08/13 10:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Russell Britten

President



**ENVIRONMENTAL
TESTING, INC.**

4619 N. Santa Fe

Oklahoma City, OK 73118

405.488.2400 Phone

405.488.2404 Fax

www.etilab.com



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Associated Environmental Industries Corp.
P.O. Box 5300
Norman OK, 73070

Project: Webb City, OK
Project Number: No Project
Project Manager: Mr. Robert Keyes

Reported:
08/12/13 15:26

MW20

E3H0130-01 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	2130	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B	
Total Dissolved Solids	2910	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C	

Anions by EPA Method 300.0

Chloride	551	80.0	mg/L	500	EBH0199	LSB	08/10/13 18:33	EPA 300.0	
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Environmental Testing Inc.

Russell Britten, President

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Reported:
08/12/13 15:26

MW21

E3H0130-02 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	310	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B
Total Dissolved Solids	5310	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C

Anions by EPA Method 300.0

Chloride	2510	320	mg/L	2000	EBH0199	LSB	08/10/13 00:12	EPA 300.0
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Reported:
08/12/13 15:26

MW22

E3H0130-03 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	455	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B
Total Dissolved Solids	1710	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C

Anions by EPA Method 300.0

Chloride	768	80.0	mg/L	500	EBH0199	LSB	08/10/13 00:28	EPA 300.0
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Reported:
08/12/13 15:26

MW23

E3H0130-04 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	385	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B
Total Dissolved Solids	2490	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C

Anions by EPA Method 300.0

Chloride	1080	80.0	mg/L	500	EBH0199	LSB	08/10/13 00:45	EPA 300.0
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Reported:
08/12/13 15:26

MW24

E3H0130-05 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	1290	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B
Total Dissolved Solids	1550	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C

Anions by EPA Method 300.0

Chloride	191	160	mg/L	1000	EBH0199	LSB	08/10/13 01:01	EPA 300.0
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MW25

E3H0130-06 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	1870	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B
Total Dissolved Solids	2730	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C

Anions by EPA Method 300.0

Chloride	504	320	mg/L	2000	EBH0199	LSB	08/10/13 01:17	EPA 300.0
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Reported:
08/12/13 15:26

MW26

E3H0130-07 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	300	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B
Total Dissolved Solids	3210	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C

Anions by EPA Method 300.0

Chloride	1830	160	mg/L	1000	EBH0199	LSB	08/10/13 01:33	EPA 300.0
----------	------	-----	------	------	---------	-----	----------------	-----------

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Reported:
08/12/13 15:26

MW27

E3H0130-08 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	364	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B
Total Dissolved Solids	7320	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C

Anions by EPA Method 300.0

Chloride	3670	800	mg/L	5000	EBH0199	LSB	08/10/13 01:50	EPA 300.0
----------	------	-----	------	------	---------	-----	----------------	-----------

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Reported:
08/12/13 15:26

MW28

E3H0130-09 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	3250	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B
Total Dissolved Solids	10600	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C

Anions by EPA Method 300.0

Chloride	3840	800	mg/L	5000	EBH0199	LSB	08/10/13 02:06	EPA 300.0
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Reported:
08/12/13 15:26

MW29

E3H0130-10 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing Inc.

Conventional Chemistry Parameters by Standard Methods

Total Alkalinity	1990	20.0	mgCaCO ₃ /L	1	EBH0193	DMB	08/09/13 08:50	SM 2320B
Total Dissolved Solids	2390	50.0	mg/L	1	EBH0217	DMB	08/12/13 12:10	SM 2540C

Anions by EPA Method 300.0

Chloride	181	32.0	mg/L	200	EBH0199	LSB	08/10/13 18:49	EPA 300.0
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Reported:
08/12/13 15:26

Conventional Chemistry Parameters by Standard Methods - Quality Control

Environmental Testing Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EBH0193 - General Prep - Wet Chem (Aq)

Duplicate (EBH0193-DUP1)

Source: E3H0108-01

Prepared & Analyzed: 08/09/13

Total Alkalinity	50.0	20.0	mgCaCO3/L	50.0	0	20
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Batch EBH0217 - General Prep - Wet Chem (Aq)

Blank (EBH0217-BLK1)

Prepared: 08/09/13 Analyzed: 08/12/13

Total Dissolved Solids	<50.0	50.0	mg/L
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LCS (EBH0217-BS1)

Prepared: 08/09/13 Analyzed: 08/12/13

Total Dissolved Solids	1000	50.0	mg/L	1000	100	80-120
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Duplicate (EBH0217-DUP1)

Source: E3H0130-01

Prepared: 08/09/13 Analyzed: 08/12/13

Total Dissolved Solids	2830	50.0	mg/L	2910	3	20
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Reported:
08/12/13 15:26

Anions by EPA Method 300.0 - Quality Control

Environmental Testing Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EBH0199 - General Prep - Wet Chem (Aq)

Blank (EBH0199-BLK1)

Prepared & Analyzed: 08/09/13

Chloride	<0.160	0.160	mg/L
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LCS (EBH0199-BS1)

Prepared & Analyzed: 08/09/13

Chloride	0.593	0.160	mg/L	0.600	99	80-120
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Matrix Spike (EBH0199-MS1)

Source: E3H0130-01RE1

Prepared & Analyzed: 08/09/13

Chloride	3610	800	mg/L	3000	644	99	75-125
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Matrix Spike Dup (EBH0199-MSD1)

Source: E3H0130-01RE1

Prepared & Analyzed: 08/09/13

Chloride	3580	800	mg/L	3000	644	98	75-125	0.7	20
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Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2014
NELAP	NELAP Accredited	10002	06/30/2014
ODEQ	Oklahoma Accredited	2012-154	08/31/2013
TCEQ	Texas Accredited	T104704498-13-3	03/31/2014

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Reported:
08/12/13 15:26

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
x Non-Certified analyte

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ENVIRONMENTAL TESTING, INC.

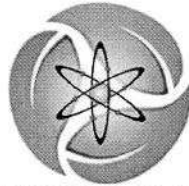
4619 NORTH SANTA FE AVE.
OKLAHOMA CITY, OK 73118
(405) 488-2400
FAX: (405) 488-2404



PAGE: OF
SAMPLE SERIES #: E3H0130
SHADED AREAS FOR LABORATORY USE ONLY

CHAIN OF CUSTODY RECORD

COMPANY: <u>Associated Environmental Industries, Corp</u> ADDRESS: <u>PO Box 5300 Norman, OK 73070</u> PHONE #: <u>405-360-1434</u> EMAIL: <u>robert@aei-corp.com</u> P.O. #: <u> </u> CLIENT CONTACT: <u>Robert Keyes</u> PROJECT #: <u> </u> /MANAGER: SITE LOCATION: <u>Well City</u>		SAMPLE TYPE 1. WATER 2. SOIL 3. SLUDGE 4. OIL 5. OTHER CONTAINER TYPE P-PLASTIC G-GLASS V-VOA O-OTHER T-TEFLON		ANALYSIS Chlorides TDS Alkalinity		LAB COMMENTS	
ETI SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER	SAMPLING	PRESERVATIVES	FIELD PH:	TEMP:
		SIZE	TYPE	#	DATE	TIME	
1	MW20	1 ft	P	20	8/7/13	1255pm	
2	MW21	1 ft	P	21	8/7/13	1205pm	
3	MW22	1 ft	P	22	8/7/13	1100am	
4	MW23	1 ft	P	23	8/7/13	225pm	
5	MW24	1 ft	P	24	8/7/13	140pm	
6	MW25	1 ft	P	25	8/7/13	535pm	
7	MW26	1 ft	P	26	8/7/13	455pm	
8	MW27	1 ft	P	27	8/7/13	415pm	
9	MW28	1 ft	P	28	8/7/13	345pm	
10	MW29	1 ft	P	29	8/7/13	300pm	
RECEIVED ON ICE: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N @ <u>8.0°C</u> EQUIPMENT #: <u>40084</u>		RUSH REQUIRED: (ADDITIONAL FEES MAY APPLY) <input type="checkbox"/> 3 DAYS <input checked="" type="checkbox"/> 2 DAYS <input type="checkbox"/> 1 DAY <u>Monday</u>		SAMPLER:		FIELD PH:	
REQUESTED TURNAROUND TIME: <input type="checkbox"/> REGULAR (5 DAYS)		RELINQUISHED BY: <u>[Signature]</u>		RECEIVED BY: <u>[Signature]</u>		COMMENTS:	
RELINQUISHED BY:		DATE: <u>8/8/13</u>		TIME: <u>1051</u>		CALIB: <input type="checkbox"/> 4 <input type="checkbox"/> 7 <input type="checkbox"/> 10	
RELINQUISHED BY:		DATE:		TIME:		COND:	
RELINQUISHED BY:		DATE:		TIME:		COND:	



ENVIRONMENTAL
TESTING, INC.

F039.008

Sample/Cooler Receipt Form

Sample Series # E3H0130

1. Were samples received on ice? YES NO
2. Temperature of representative sample or temperature blank 3.6 °C
3. If the temperature is $\leq 0^{\circ}\text{C}$, was the representative sample or temp blank frozen? YES NO NA
4. Did all containers arrive in good condition (unbroken)? YES NO
5. Were VOA vials received? YES NO
- a. Was there any observable headspace present in any VOA vial? YES NO NA
6. Were the correct containers used for the analysis requested? YES NO
7. Was there sufficient amount of sample to perform the requested tests in each container? YES NO
8. Were the samples received with sufficient time left to meet holding time requirements? YES NO
9. On preserved containers, did pH strips suggest preservation reached the correct pH level?
(DO NOT OPEN VOA VIALS TO CHECK pH) YES NO NA
- Acid Preserved ≤ 2 Other _____ Base Preserved ≥ 12 Other _____
10. Did the containers indicate the correct preservatives were used for the requested analysis? YES NO NA
11. Were chain-of-custody forms properly filled out (conforms to ETI Sample Acceptance Policy)? YES NO
12. If samples were not in compliance, was the client notified of the nonconformity? YES Date: _____
Initial: _____
- a. If yes, does the client wish to proceed with analysis? YES NO
13. Was the client notified of the intent to subcontract work that will NOT be performed by ETI? YES Date: _____
Initial: _____

Preservative ID(s) _____, _____, _____, _____

I certify that all of the above checks were completed. (Initial) aw

I certify the project was entered into the LIMS, and a label with the unique LIMS number was attached to each container.
(Initial) aw

Notes:

Report and Accompanying Data Reviewed by: _____ Date: _____